

KENWOOD

FM/AM CD TUNER

KDC-9100

INSTRUCTION MANUAL

KENWOOD CORPORATION



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94/12 11 10 9 8 7 6 5 4 3 2 1 93/12 11 10 9 8 7 6 5 4 3

SAFETY PRECAUTIONS

⚠ WARNING

To prevent fire and avoid personal injury in case of accidents

- Make sure the faceplate is securely locked in place.
- When extending the power supply, memory backup or ground lead, avoid short circuits by using 0.75mm² (AWG 18) or larger automotive grade cable.
- Check to be sure that no metal objects (tools, needles, coins) are left inside the unit.
- If you smell or see smoke, disconnect the unit immediately and consult your KENWOOD dealer. Continued use can cause a fire or permanent damage to the unit.

⚠ CAUTION

To keep the unit in proper working order

- Be sure it's connected to a 12V DC power supply with a minus ground connection.
- Do not open front panel or top or bottom cover.
- Do not expose this unit to direct sunlight or high heat.
- Keep it clean and dry.
- Be sure it is fastened securely and not exposed to excess vibration.
- Do not leave the remote control unit in high temperature such as from direct sunlight. It results in the deformation of the case.

⚠ CAUTION

This unit is equipped with a theft deterrent faceplate. To prevent damage to the faceplate and case

- Avoid exposure to direct sunlight and heat. High temperatures can cause deformation and warping.
- Avoid exposure to water.
- The faceplate is a high-precision instrument. When the faceplate is detached, store it in its special case. Never drop it or subject it to other shocks.
- Do not touch the faceplate terminal or faceplate mount with your fingers.

NOTE

- If you have difficulty in installing this unit in your vehicle, please contact your KENWOOD dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your KENWOOD dealer.



Reset button

CARE AND MAINTENANCE

Cleaning

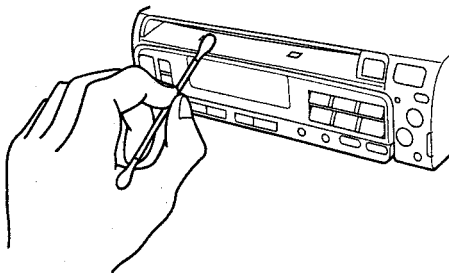
1. Always turn the power OFF before cleaning.
2. Wipe the front panel and other exterior surfaces with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.

CAUTION

- DO NOT use abrasive pads or paint thinner, benzene, or other volatile solvents. These may remove the indicator characters.

CD slot cleaning

Since dust accumulates in the CD slot, it will sometimes need to be cleaned. Discs loaded in dusty slots may be damaged.

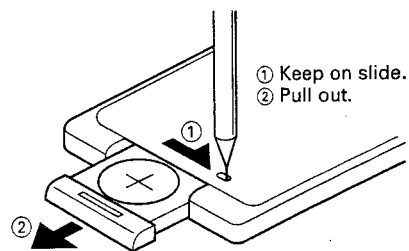


Cleaning the faceplate terminal

If the faceplate terminal or faceplate mount terminal become dirty, wipe them clean with a soft, dry cloth.

Replacing battery of remote control unit

- The battery life is approximately a half year. When the life has expired, please replace the battery with a new battery.
- The remote control unit uses a lithium battery (CR2025).
- Insert battery following the illustration inside the battery box, taking care not to reverse the ⊕ and ⊖ polarity.



LENS FOGGING AND HEAT PROTECTION

Lens Fogging

- In cold climates, there may be a period after you turn on your vehicle's heater when the lens that guides the laser beam used in your CD player fogs up. If this happens, your CD player will not work properly. If you wait about an hour, the fogging will disappear and your CD player will work normally.
If it does not return to normal, please contact your KENWOOD dealer or authorized service center.

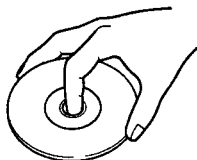
Heat Protection

- In warm climates, when vehicles are left standing in direct sunlight with the windows closed, the temperature inside can rise above 60°C. Your CD player's protection circuits will then display the message "HOLD" and prevent the player from operating. Just open the windows or turn on the air conditioning. As soon as the "HOLD" message disappears, the player will operate normally.
If it does not return to normal, press Reset button before use.

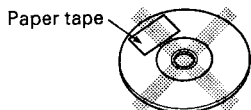
HANDLING COMPACT DISCS

- Stains, dust, scratches or warping can cause skipping or other malfunctions. To enjoy your discs for a long time, please handle them as follows.

<Holding a Disc>



- Avoid touching the music storage area (the part with the glistening rainbow colors).

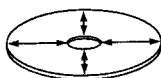


- Do not use paper tape on the label or music storage area.

<Storing Your Discs>

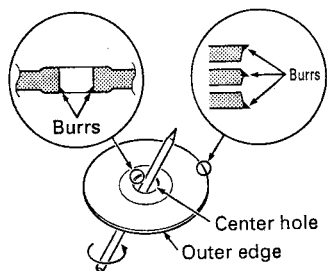
- Do not store discs where they will be exposed to direct sunlight, high heat, or humidity.
- Especially in summer, never leave your discs exposed to sunlight on the dashboard or on the seat with the windows closed. High heat can cause warping.
- If you do not use your player for an extended period of time, remove the disc magazine from the changer and store it in a cool, dry place.
- Store your discs in their cases or in the magazine. To avoid scratches, dirt, or warping, do not leave them lying around without cases, piled up, or leaning on each other.

<Cleaning Your Discs>



- If there are fingerprints or stains on a disc, wipe them off with a soft cotton cloth, wiping from the center to the outside edge. Never use paint thinner, benzene or conventional record cleaners.

<Check Your New Discs>



- Some new discs have burrs on their outer edges or around the hole in the center. Use a ballpoint pen or similar instrument to remove them. Discs with burrs may not fit properly in the player or disc magazine, causing skipping when they are played.

<Disc Accessories>

- There are several types of stabilizers, protective seals, and other disc accessories on the market, which claim to offer improved sound quality or disc protection. These accessories can, however, change the dimensions or thickness of a disk and may cause the disc changer to malfunction. They should not be used on discs played in this unit.

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FEATURES

■ TUNER FEATURES

- **Auto seek tuning (p.13)**
Automatically searches for stations you can receive.
- **Local scan (p.15)**
When this feature is turned on, it combines scanning and Auto Memory and presets only strong stations offering good reception.
- **Monaural tuning (p.15)**
When stereo reception conditions are poor, turning on this function switches reception to monaural, improving sound quality by reducing noise.
- **Preset stations (p.19)**
Stores the frequencies of your favorite stations in memory, for one-touch tuning.
- **Auto memory (p.20)**
Automatically stores the strongest stations you can pick up, for one-touch tuning.
- **Preset seek (p.21)**
Receives stations which have been stored in memory in order.
- **Priority preset (p.22)**
This feature allows instant one-touch access to a station you often listen to (for news, traffic information, etc.), regardless of your tuner's operating mode.
- **Direct access tuning (p.23)**
This remote control feature allows you to input a frequency to listen to that station of your choice.

■ CD PLAYER FEATURES

- **Track repeat (p.25)**
Plays the same track repeatedly.
- **Track scan (p.26)**
Automatically plays the first part of each track on the disc in sequence, to help you find the one you want.
- **Random play (p.27)**
Plays the tracks on a CD in random order.
- **Direct track search (p.28)**
This remote control feature allows you to enter the number of the track you wish to hear by pressing the appropriate number keys.

■ CD AUTO CHANGER FEATURES

- **CD auto changer control (p.29-38)**
Controls operations of the CD auto changer.
- **Track repeat (p.31)**
Plays the same track repeatedly.
- **Disc repeat (p.31)**
Plays the same disc repeatedly.
- **Track scan (p.32)**
Automatically plays the first part of each track on the disc in sequence, to help you find the one you want.
- **Disc scan (p.33)**
Automatically plays the first part of each disc in the CD auto changer, to help you find the one you want. Especially helpful when you cannot remember the number of the disc you want.
- **Random play (p.34)**
Plays the tracks on a CD in random order.
- **Magazine random play (p.35)**
Plays discs and tracks of discs in your auto changer in random order.
- **Memory play (p.36)**
Selects 20 tracks from a disc magazine and stores them in memory. The stored tracks can be played in the order they were stored in memory.
- **Direct track/disc search (p.38)**
This remote control feature allows you to enter the number of the track or disc you wish to hear by pressing the appropriate number keys.

FEATURES

■ CONVENIENT FEATURES

- **Remote control (p.18)**
This unit can be operated using the wireless remote control supplied as an accessory. Some features require the remote control.
- **Clock display (p.39)**
Displays the time in the display window.
- **Preset tone (p.42)**
Adjusts the tone controls (bass, mid-bass and treble) and stores their settings in the memory. The stored tones can be recalled with a one-touch operation.
- **Selectable illumination (p.44)**
Allows illumination color to be switched between green and orange.
- **Selectable display type (p.45)**
Lets you change the display from negative to positive or vice-versa.
- **Phone interface (p.46)**
Pauses the player automatically whenever a call is received.
- **Theft deterrent faceplate (p.47)**
When you leave the vehicle, you can take the faceplate with you, to help prevent theft.
- **Channel band selection (p.48)**
Allows you to switch bands between FM:200kHz/AM:10kHz and FM:50kHz/AM:9kHz.
- **Automatic illumination**
Causes the display panel to light up when the vehicle's lights are on.

ON/OFF, ALL MODE STANDBY & VOLUME CONTROLS

POWER ON/OFF

To turn the power ON

- ▶ Press the Power button.

To turn the power OFF

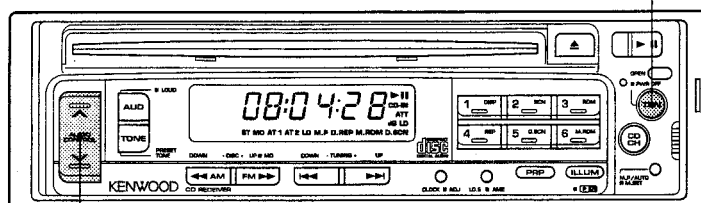
- ▶ Press the Power button for more than one second.

ALL MODE STANDBY

In tuner mode, briefly pressing the Power button puts the unit in All mode standby, waiting for a new mode selection.

OFF

Your new CD Tuner



VOLUME

To increase the volume

- ▶ Press the ^ button.

To lower the volume

- ▶ Press the v button.

(The display indicates the sound level in decibels (dB).)

1'0L -28 dB


NOTE

- Turning the power ON automatically restores the settings in use when the unit was turned OFF.
- Perform these operations with the power ON.

INTENSITY

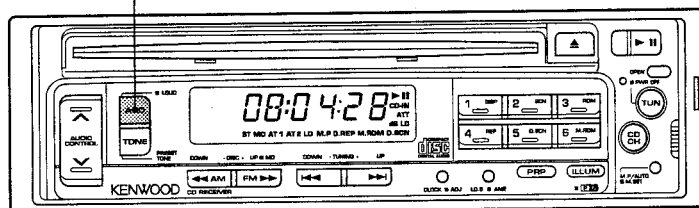
Your new CD Tuner

- If the Loud indicator light is not illuminated, press the Loud button for more than one second. (Loud indicator light will light up. Both bass and treble volume increase.)

F1-92.1 

TO RESTORE ORIGINAL LEVELS

- Press the Loud button again for more than one second. (Loud indicator light will go out.)



AUTO SEEK TUNING

Your new CD Tuner

WHILE LISTENING TO THE TUNER

- Press the Tuner button.
(Tuner reception begins.)

1

To select an FM band

- Briefly press the FM button to choose FM1, FM2 or FM3.

To select an AM band

- Press the AM button.

F1

FM1

F2

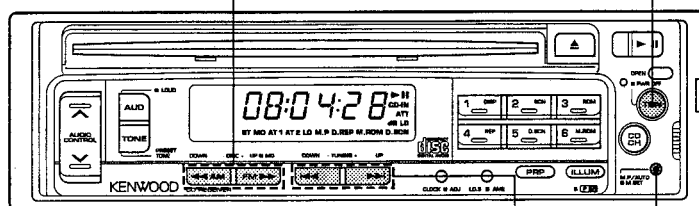
FM2

F3

FM3

A

AM



2

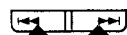
- Press the Auto button to select Auto tuning 1 mode.
(If you see the AT1 display, you are Auto tuning 1 mode.)

F1 92.1

AT1

3

- Press either the Down seek or the Up seek button.
(The Auto seek function will find the next station you can receive.)



DOWN
SEEK

UP
SEEK

F1 92.1

ST AT1

Display shows frequency of station received.

Illuminated when FM stereo broadcasts are received.

MANUAL TUNING

Your new CD Tuner

WHILE LISTENING TO THE TUNER

- Press the Tuner button.
(Tuner reception begins.)

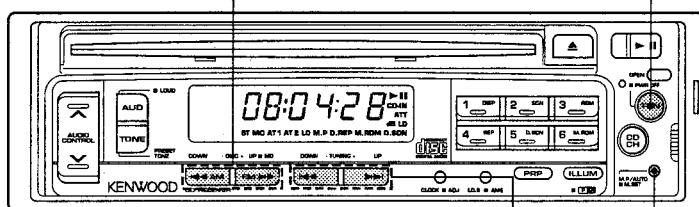
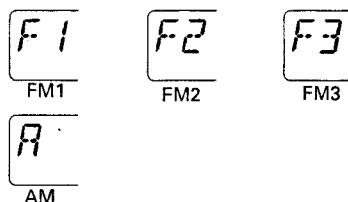
1

To select an FM band

- Briefly press the FM button to choose FM1, FM2 or FM3.

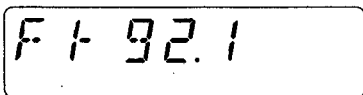
To select an AM band

- Press the AM button.



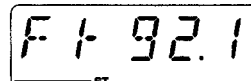
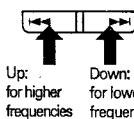
2

- Press the Auto button to select Manual tuning mode.
(If you do not see the AT1 and AT2 displays, you are in Manual tuning mode.)



3

- Press either the down or up arrow buttons.
(The frequency will continue to change as long as you hold the button down.)



Display shows frequency of station received.

Illuminated when FM stereo broadcasts are received.

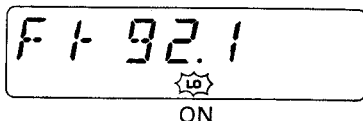
LOCAL SCAN AND MONAURAL TUNING

■ LOCAL SCAN TUNING

1

To turn on Local scan

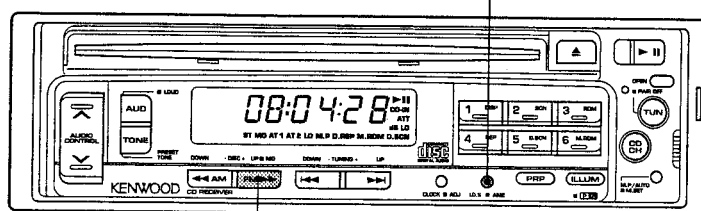
- Briefly press the Local scan button.
(The indicator light will light up.)



2

To turn off Local scan

- Briefly press the Local scan button again.
(The indicator light will go out.)

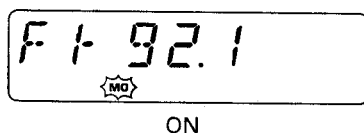


■ MONAURAL TUNING

1

To turn on Monaural tuning

- Press the Monaural tuning button for more than one second.
(The indicator light will light up.)



2

To turn off Monaural tuning

- Press the Monaural tuning button for more than one second.
(The indicator light will go out.)

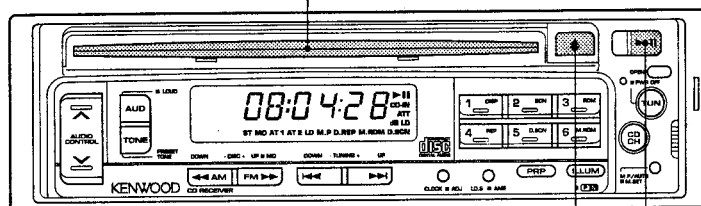
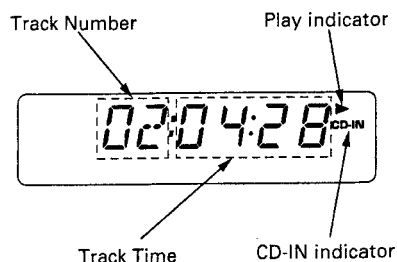
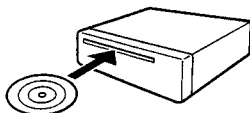
Your new CD Tuner

TO PLAY COMPACT DISCS

Your new CD Tuner

TO PLAY

- ▶ Insert a CD with the label side up.
(The disc will be drawn in and the CD-IN and play indicator will appear on the display.)



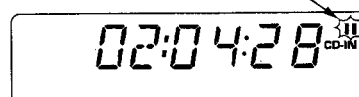
TO STOP AND EJECT

- ▶ Press the Eject button.
(The player will eject the disc.)

TO PAUSE

- ▶ Press the Play/Pause button.
(The Pause indicator will appear on the display.)
- ▶ To restart play, press the Play/Pause button again.

Pause indicator



NOTE

- If you press the Play/Pause button before a disc that has been ejected is removed from the disc slot, it will be drawn back into the player and played, automatically.
- To protect your discs, the player automatically draws in any disc that has been ejected but not removed within 15 seconds.
- Do not attempt to insert a disc in a slot where there is already another disc.

SKIP AHEAD/SKIP BACK

Operation	Press
Skip Ahead	▶▶
Skip Back	◀◀

The action will stop when you release the button.

TIME DISPLAY

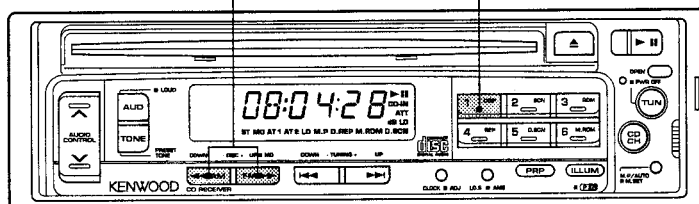
- ▶ Each time you press the Display button, the display switches between current track and total CD playback time.
(The "+" indicates total CD playback time.)

02:04:28⁺ CD-IN

Current track playback time display

02:10:37⁺ CD-IN

Total CD playback time display

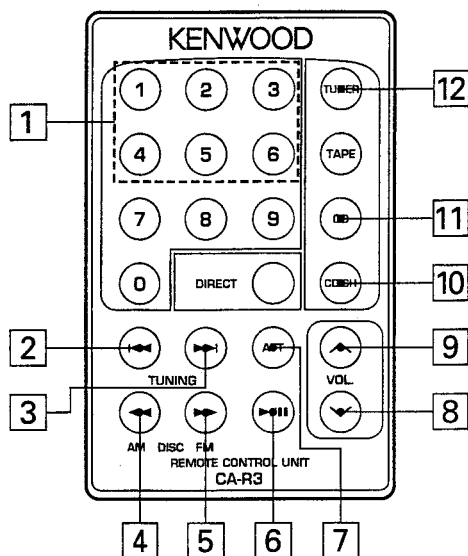


⚠ CAUTION

- This unit is designed for playing 12cm(5in.) compact discs. Attempting to play 8cm(3in.) discs may damage the unit and should be avoided.

USING THE REMOTE CONTROL

Your new CD Tuner



1
TUNER:
Press to select preset stations.

2
CD:
Plays the previous track.
TUNER:
Shifts the lower frequency.
CD CHANGER:
Plays the previous track.

3
CD:
Plays the next track.
TUNER:
Shifts to higher frequency.
CD CHANGER:
Plays the next track.

4
CD:
Skip back the CD.
TUNER:
Switches to AM bands.
CD CHANGER:
Plays the previous disc.

CD:
Operates in CD Mode.
TUNER:
Operates in Tuner Mode.
CD CHANGER:
Operates in CD Changer Mode.

5
CD:
Skip ahead the CD.
TUNER:
Switches to FM1/FM2/FM3 bands.
CD CHANGER:
Plays the next disc.

6
CD:
Plays or pauses playing of a CD.
CD CHANGER:
Plays or pauses playing of a CD.

7
Lowers audio volume.
To restore previous level
• Press this button again.

8
Lowers volume.

9
Increases volume.

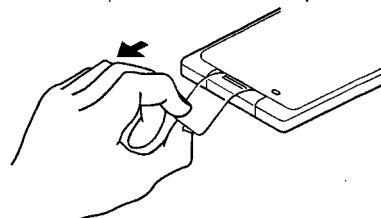
10
Press for CD changer mode.

11
Press for CD mode.

12
Press for Tuner mode.

NOTE

Before using this unit for the first time, pull out the tape from the battery box.



PRESET STATIONS

1

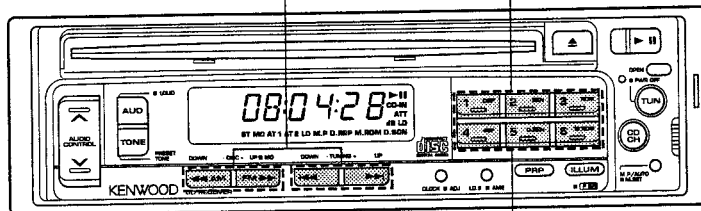
Select the band and station you want to preset.

2

► Press the Preset station button you want to use for more than two seconds.

(When the station is entered in memory, the number of the button to which you've assigned it will appear on the display.)

F 1 92.1 -1



Tuner features

3

By repeating steps 1 and 2 you can preset each button for one station each from the FM1, FM2, FM3 and AM bands.

4 USING PRESET STATIONS

► Briefly press the button of the station you want.
(When you press the button, you will hear the station assigned to it.)

F 1 92.1 -1

NOTE

- When you assign a preset station to a button, the previous setting will be erased.

AUTO MEMORY

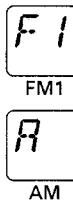
1

To select an FM band

- Briefly press the FM button to choose FM1, FM2 or FM3.

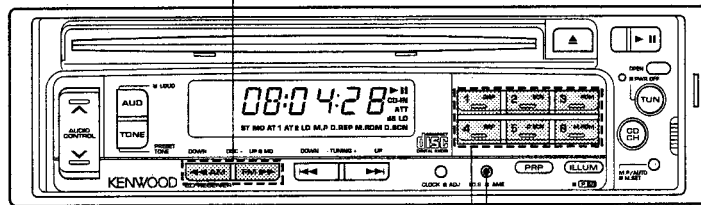
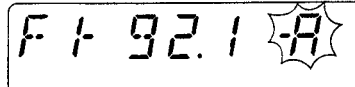
To select an AM band

- Press the AM button.



2

- Press the Auto memory button for more than two seconds. (When the seek function finds a station, the "A" indicator will light up. The display will show the number of the button to which it has been assigned.)



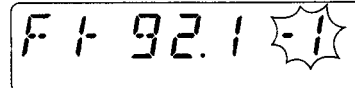
3

When six stations have been found, the Auto memory function stops. You will hear the last station selected.

4

USING PRESET STATIONS

- Briefly press the button of the station you want. (When you press the button, you will hear the station assigned to it.)



PRESET SEEK

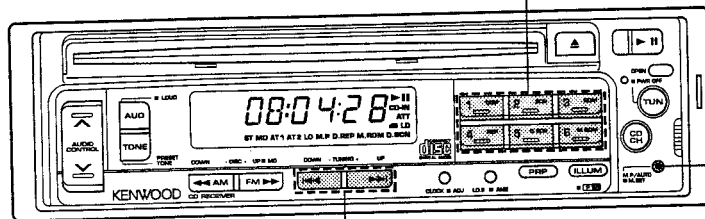
1

Store a station frequency for each Preset button.

2

► Press the Auto button to select Auto tuning 2 mode.
(If you see the AT2 display, you are in Auto tuning 2 mode.)

F 1 92.1 -1
AT2



Tuner features

3

Down preset seek

► Press the ◀◀ button.
(The station stored in the previous Preset button is received and the button number is displayed.)

Up preset seek

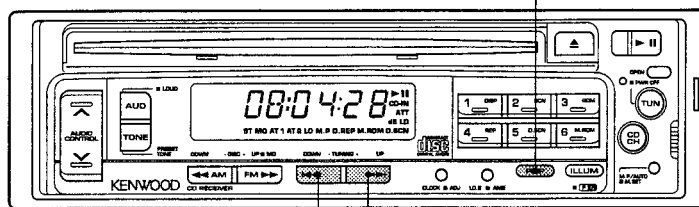
► Press the ▶▶ button.
(The station stored in the next Preset button is received and the button number is displayed.)

- ▶ Press the Priority preset button.
(As soon as reception begins.)

TO TURN IT OFF

- ▶ Press the Priority preset button again.
(The tuner will return to the previous mode.)

Tuner features



TO CHANGE THE PRIORITY PRESET

- ▶ Press the Priority preset button and tune to the station you want. (The next time you press Priority preset, the tuner will shift to this station automatically.)

TO CHANGE THE PRIORITY PRESET

- ▶ Press the Priority preset button and tune to the station you want. (The next time you press Priority preset, the tuner will shift to this station automatically.)

NOTE

- Only seek and manual tuning can be used in Priority preset mode.

DIRECT ACCESS TUNING

1 Select either AM or FM

- To select AM, press the AM button.
- To select FM, press the FM button.

F1

FM 1

F2

FM 2

F3

FM 3

A

AM

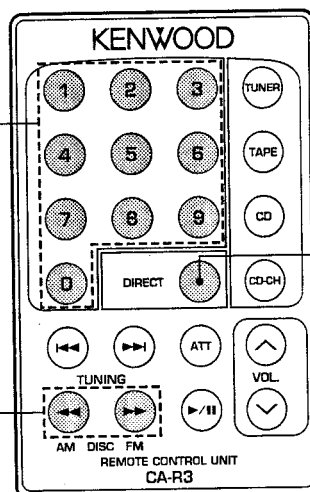
2 Select direct access

- Press the Direct button.
(The 1888 will appear on the display and blink for 10 seconds.)

F 1-1888

3 Enter a new frequency

- Before the frequency indicator stops blinking, use the number keys control to enter the frequency you prefer.
For example: To enter FM 87.9 MHz, press ⑧, ⑦, ⑨.
For example: To enter AM 1160 kHz, press ①, ①, ⑥, ⑩.



Tuner features

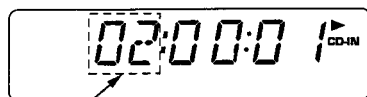
NOTE

- You cannot enter frequencies your tuner cannot receive.

TRACK SEARCH

BACKWARD TRACK SEARCH

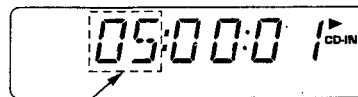
- Briefly press the **⏮** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.



Track No.

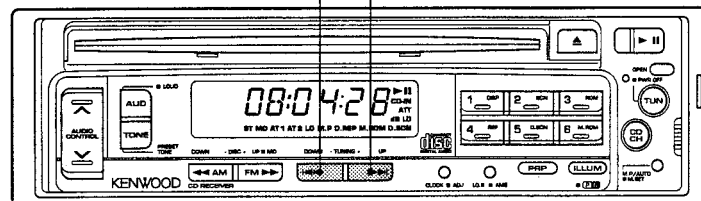
FORWARD TRACK SEARCH

- Briefly press the **⏭** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.



Track No.

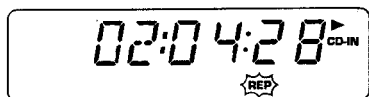
CD player features



TRACK REPEAT

1

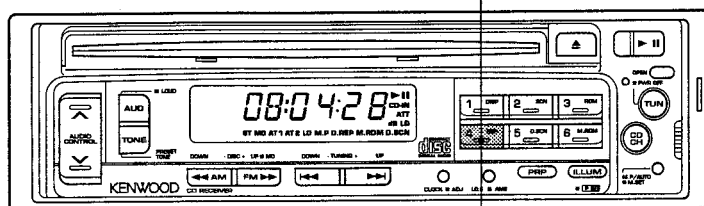
- To repeat the track you are listening to, press the Track repeat button.
(The Repeat indicator will appear on the display.)



ON

2

- The player will repeat the track you are playing.



TO STOP

- Press the Track repeat button again.
(The Repeat indicator will disappear.)

CD player features

TRACK SCAN

1

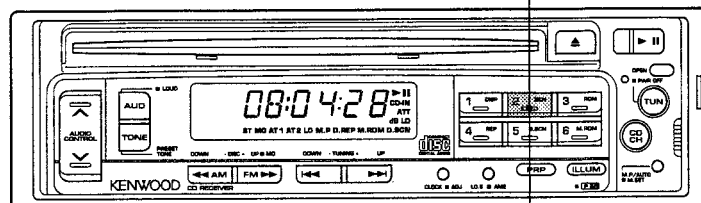
- Press the Track scan button.

2

The player will play the first 10 seconds of each track. The track number will flash on the display.



ON



CD player features

3

- To select a track, press the Track scan button again. (Scanning will stop and playback begin.)

RANDOM PLAY

1

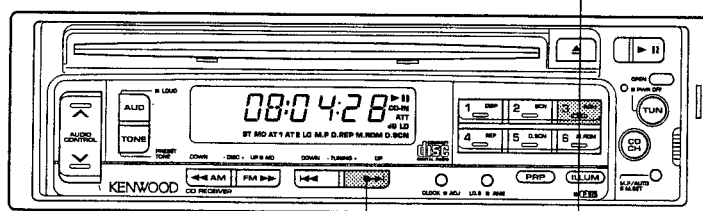
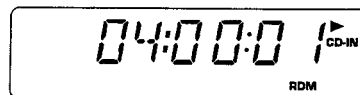
► Press the Random button.
(The Random indicator will light up, and the player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously.)



During random search

2

When the track is selected, playback will begin automatically.



3 TO SELECT ANOTHER TRACK

► Press the ►► button.
(The player will randomly choose another track.)

TO STOP

► Press the Random button again.
(The disc play returns to normal.)

CD player features

DIRECT TRACK/DISC SEARCH

■ DIRECT TRACK SEARCH

1

- Use the number keys to enter the number of the track you want.

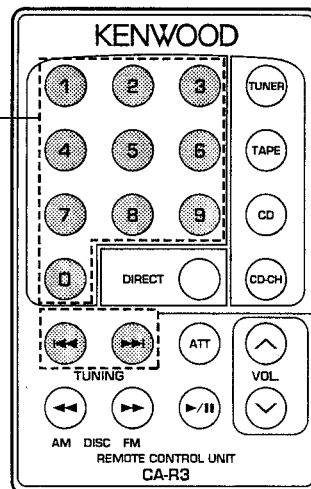
(When the player reaches the track you've selected, its number will blink for 10 seconds.)

For example: To listen to track number 7,
press 7.
To listen to track number 12,
press 1, 2.

2

- To skip forward or backward, press the ►► or ◀◀ buttons.

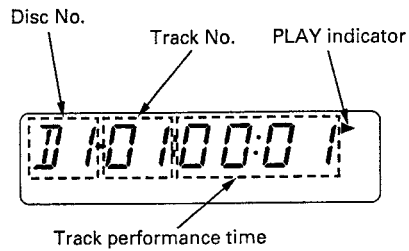
CD player features



TO PLAY COMPACT DISCS

TO START

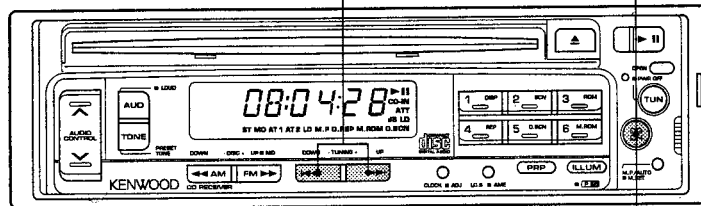
- Press the CD changer button.
(The disc starts playing.)



TO SKIP AHEAD/BACK

Operation	Press
Ahead	▶▶
Back	◀◀

Hold down the button until you reach the track you want.



TO STOP

- Press the CD changer button again.
(The disc will stop playing.)

NOTE

- When the player reaches the end of the last track on the disc you are playing, it will shift automatically to the first track on the next disc in order.
- When you change the discs in the autochanger, the Load indicator will appear on the display.
- "0" indicates the No. 10 disc.

CD changer features

TRACK/DISC SEARCH

BACKWARD TRACK SEARCH

- Briefly press the **◀◀** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.



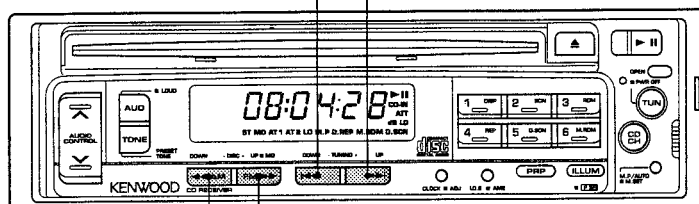
Track No. display

FORWARD TRACK SEARCH

- Briefly press the **▶▶** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.

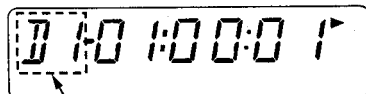


Track No. display



BACKWARD DISC SEARCH

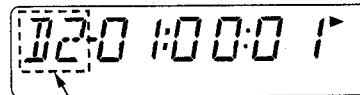
- Press the **Disc-** button until you see the number of the disc you want to play. The unit will begin playing the disc shown on the display.



Disc No. display

FORWARD DISC SEARCH

- Press the **Disc+** button until you see the number of the disc you want to play. The unit will begin playing the disc shown on the display.



Disc No. display

CD changer features

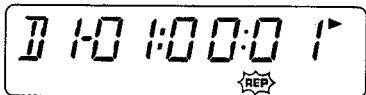
NOTE

- If you try Backward track search while playing track No. 1, the player will resume play at the start of track No. 1.
- If you try Forward track search while playing the last track on a disc, nothing will happen.

TRACK/DISC REPEAT

TO START TRACK REPEAT

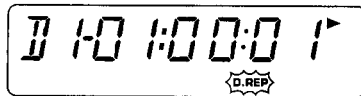
- Press the Repeat button.
(The Repeat indicator will appear on the display, and the player will repeat the track you are playing until you cancel repeat.)



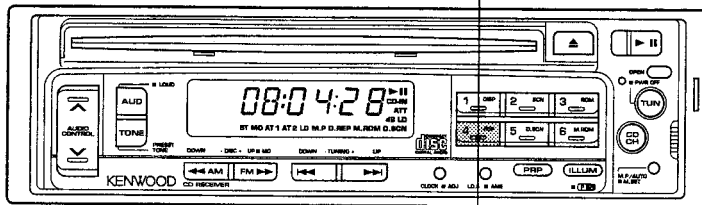
Track repeat ON

TO START DISC REPEAT

- ▶ Press the Repeat button twice.
(To use Track repeat function,
press the Repeat button once.)
(The Disc repeat indicator will
appear on the display, and the
player will repeat the disc you are
playing until you cancel repeat.)



Disc repeat ON



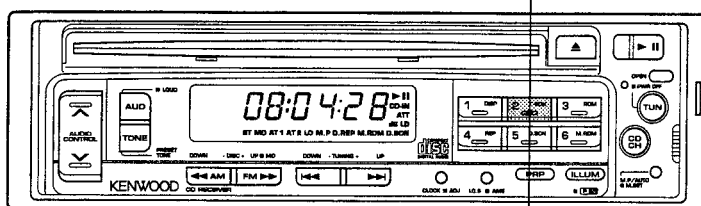
TO STOP

- ▶ Press the Repeat button again.
(To use Track repeat function,
press the Repeat button twice.
To use Disc repeat function,
press the Repeat button once.)
(The Disc repeat indicator will
disappear.)

Table 1 Demographic characteristics of study population

▶ Press the Track scan button.

The player will play the first 10 seconds of each track. The track number will flash on the display.



- ▶ To select a track, press the Track scan button again.
(Scanning will stop and playback begin.)

DISC SCAN

1

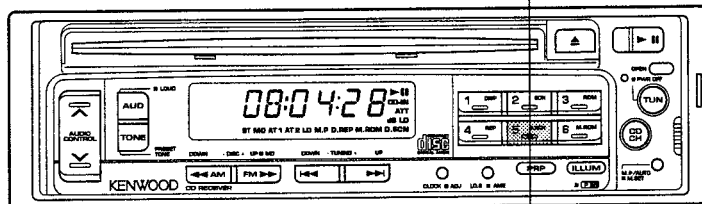
- Press the Disc scan button.

2

The player will play the first 10 seconds from each disc in the changer. The disc number will flash on the display.



ON



3

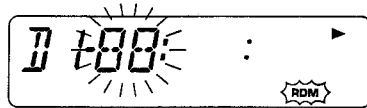
- To select a disc, press the Disc scan button again. (Scanning will stop and playback begin.)

CD changer features

RANDOM PLAY

1

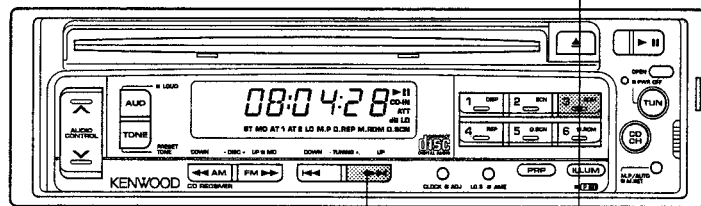
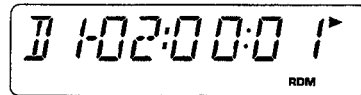
► Press the Random button.
(The player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously.)



During random search

2

When the track is selected, playback will begin automatically.



3

TO SELECT ANOTHER TRACK

► Press the ►► button.
(The player will randomly choose another track.)

TO STOP

► Press the Random button again.
(The disc play returns to normal.)

CD changer features

NOTE

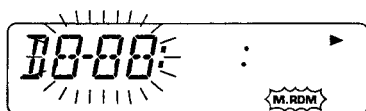
- When all the tracks on a disc have been played, the player will randomly select the next disc.

MAGAZINE RANDOM PLAY

1

- ▶ Press the Magazine random button.

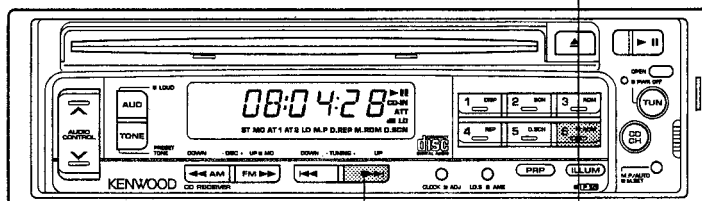
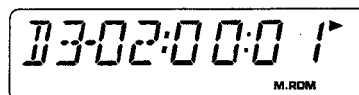
(The Magazine random indicator will light up, and the player will randomly select a disc and track from the magazine in the changer. The track numbers and disc numbers on the display will change continuously.)



During magazine random search

2

- When the search is complete, playback will begin automatically.



3

TO SELECT ANOTHER TRACK

- ▶ Press the ►►► button.
- (The player will randomly choose another disc and track.)

TO STOP

- ▶ Press the Magazine random button again.
- (The disc play returns to normal.)

NOTE

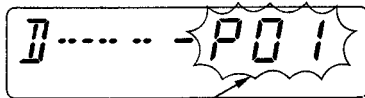
- This function is not available if you use the KDC-C100/C200/C300/C400/C301/C401 as the CD auto changer.

MEMORY PLAY

Example: To store track No. 6 on disc No. 8 in memory and play it with memory play.

1 Enter CD Memory mode

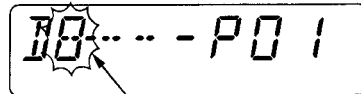
- Press the Memory Play button for more than 1 second. (The unit enters the CD memory mode, and the memory No. available for storage appears blinking on the display.)



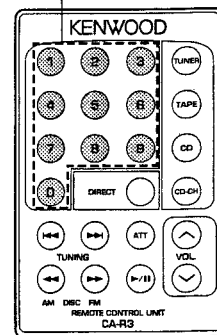
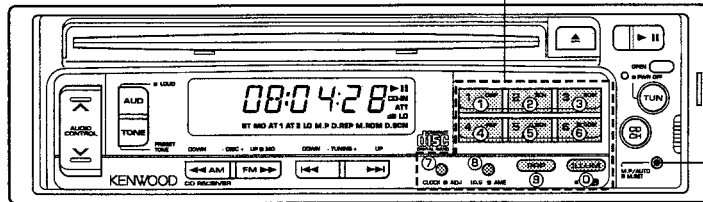
Memory No.

2 Select the disc

- Enter "8" with the numeric key. (Disc No. 8 is selected, and "8" appears on the disc No. display.)



Disc No. display



CD changer features

5

Up to 20 tracks can be stored by repeating steps 1 to 4 for each of them.

6 Cancel CD memory mode

- Press the Memory Play button. (The CD memory mode is released.) The CD memory mode is also canceled automatically when no operation has been done for more than 10 seconds.

NOTE

- Enter "0" to select disc No. 10.
- To change the content of memory, display the memory No. to be changed by pressing the ◀◀ or ▶▶ button before step 2, and enter new disc and track Nos. by proceeding to steps 2 to 4.
- The memory content can be cleared by entering "0" as the disc No. and "00" as the track No.

SPECIFICATIONS

Specification subject to change without notice.

Disc Section

Laser Diode	GaAlAs ($\lambda=780$ nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 bit (with D.P.A.C.)
Spindle Speed	500~200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response (± 1 dB)	10 Hz~20 kHz
Total Harmonic Distortion (1 kHz)	0.01%
Signal to Noise Ratio	93 dB
Dynamic Range	96 dB
Channel Separation	85 dB
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser Output Power	Less than 44.6 μ W

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

FM Tuner Section

Frequency Range	87.5 MHz~108.0 MHz
Channel Space	50 kHz
Usable Sensitivity	12.0 dBf (1.1 μ V/75 Ω)
50 dB Quieting Sensitivity	15.2 dBf (1.6 μ V/75 Ω)
Frequency Response (± 1 dB)	30 Hz~15 kHz
Signal to Noise Ratio (IEC-A)	73 dB
Selectivity (DIN)	70 dB
Capture Ratio	1.5 dB
Stereo Separation (1 kHz)	40 dB

AM Tuner Section

Frequency Range	531 kHz~1611 kHz
Channel Space	9 kHz
Usable Sensitivity	27 dB μ

Audio Section

Max. Power Output	25 W \times 2 or 9 W \times 4
Power Output (4 Ω , 30 Hz~20 kHz, 1% THD)	15 W \times 2 or 6 W \times 4
Tone Action	Bass: ± 8 dB (100 Hz) Treble: ± 8 dB (10 kHz)
Preout Level (10 k Ω)	1.0 V

General

Operating Voltage	14.4 V (11~16 V)
Current Consumption	5.0 A
Operating Temperature	-10~50 $^{\circ}$ C
Installation Size (W \times H \times D)	182 \times 52 \times 163 mm (7-3/16 \times 2-1/16 \times 6-7/16 in.)
Weight	1.8 kg (4.0 LBs)